

The following claims are presented for examination:

- 1. (previously presented)** A process for producing multi-component mineral substance preparations free of harmful substances, the process comprising:
 - a. performing a primary thermo-oxidative treatment of organic raw materials, of that is one of (i) plant origin and (ii) animal origin, in a primary temperature treatment zone, resulting in primarily oxidized material;
 - b. conditioning the primarily oxidized material;
 - c. transporting the product of the primary thermo-oxidative treatment to a second temperature treatment zone ; and
 - d. performing a secondary thermo-oxidative treatment in a second temperature treatment zone.

Claims 2 – 11 (cancelled)

12. (previously presented) The process of claim 1,
characterized in that during the conditioning, the coarser particles are sieved off,
wherein a sieve is chosen that allows only particles smaller than 1 mm to enter into the
secondary temperature treatment zone.

13. (previously presented) The process of claim 1,
characterized in that the primary thermo-oxidative treatment is performed at a
temperature of between 500°C and 3000°C.

14. (previously presented) The process of claim 1,
characterized in that the secondary thermo-oxidative treatment is performed
continually.

15. (previously presented) The process of claim 1,
characterized in that the secondary thermo-oxidative treatment is performed quasi-
continually.

16. (previously presented) The process of claim 1,
characterized in that the secondary thermo-oxidative treatment is performed using
at least one of (i) enriched oxygen and (ii) steam.

17. (previously presented) The process of claim 1,
characterized in that the secondary thermo-oxidative treatment is performed using
at least one of (i) pure oxygen and (ii) steam.

18. (previously presented) The process of claim 1,
characterized in that the primarily oxidized material, after it has been passed
through the primary temperature level, experiences a cooling by at least 50°C.

19. (previously presented) The process of claim 1,
characterized in that the direction of flow of the waste gases is selected so that it is
parallel to the direction of movement of the primary oxidate in the secondary oxidation
process.

20. (previously presented) The process of claim 1,
characterized in that the secondary thermo-oxidative treatment is performed at a
higher temperature than the primary thermo-oxidative treatment, typically at least 10°C
above the temperature of the primary thermo-oxidative treatment.

21. (previously presented) The process of claim 1 further comprising grinding
mechanically the product of the secondary thermo-oxidative treatment.

22. (previously presented) The process of claim 21,
characterized in that the grinding is carried out under dry and/or wet conditions.

23. (previously presented) The process of claim 21 further comprising adding an
organic acid to the ground substance in a diluted environment.

24. (previously presented) The process of claim 1,
characterized in that said organic raw materials comprises at least one of vegetables,
fruit, grasses, nutshells, lemon peels, orange peels, grapefruit peels, grain brans, the
remains of olives, wood, stinging nettle, spinach, and the remains of sugar beets.

25. (withdrawn) Mineral substance preparations produced in accordance with a method that comprises:

- a. performing a primary thermo-oxidative treatment of organic raw materials, of plant or animal origin, in a primary temperature treatment zone, resulting in primarily oxidized material;
 - b. conditioning the primarily oxidized material;
 - c. transporting the product of the primary thermo-oxidative treatment to a second temperature treatment zone; and
 - d. performing a secondary thermo-oxidative treatment in a second temperature treatment zone;
- characterized in that said mineral substance preparations exhibit a (K+Na) / C(organic) mass ratio of greater than 100.

26. (withdrawn) The mineral substance preparations of claim 25,
characterized in that said mineral substance preparations exhibit a (K+Na)/nitrate ratio of greater than 1000.

27. (withdrawn) The mineral substance preparations of claim 25,
characterized in that said mineral substance preparations contain clusters of trace element, wherein these clusters consist of at least one trace element.

28. (withdrawn) The mineral substance preparations of claim 27,
characterized in that the mean diameter of the clusters lies between 0.3 nm and 500 nm.

29. (withdrawn) The mineral substance preparations of claim 25, usable as at least one of a nutritional supplement, food additive, beauty aid, and medication, wherein intake can be in one of oral form, inhalative form, intravenous form, rectal form, and topical form.

30. (withdrawn) A method for the treatment of heavy metal poisoning, hair loss, chronic nausea, migraine, allergies, cardio-vascular diseases, or high blood pressure, the method comprising prescribing, to a patient, a mineral substance preparation produced in accordance with a method that comprises:

- a. performing a primary thermo-oxidative treatment of organic raw materials, of plant or animal origin, in a primary temperature treatment zone , resulting in primarily oxidized material;
- b. conditioning the primarily oxidized material;
- c. transporting the product of the primary thermo-oxidative treatment to a second temperature treatment zone; and
- d. performing a secondary thermo-oxidative treatment in a second temperature treatment zone;

wherein said mineral substance preparation exhibits a $(K+Na) / C(\text{organic})$ mass ratio of greater than 100.